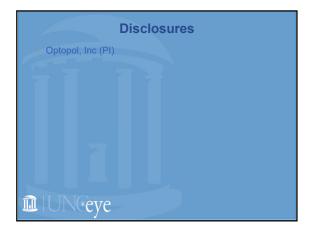
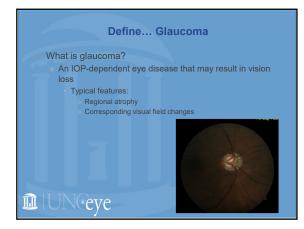
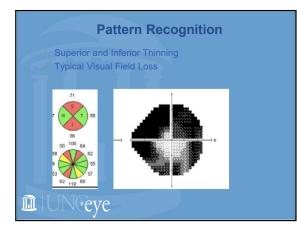
DCT and HVF Makes Glaucoma Easy: Cases that Beg to Differ

David Fleischman, MD, MS, FACS Perioperative Medical Director, UNC Hillsborough Associate Professor Director, Glaucoma Fellowship

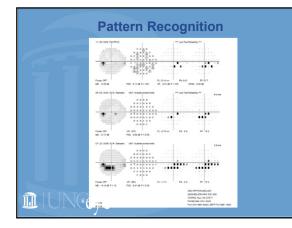
Director, Ocular Trauma University of North Carolina at Chapel Hill





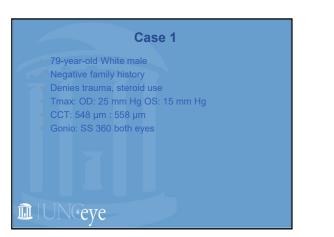


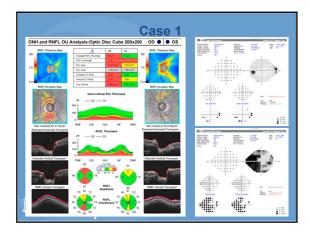




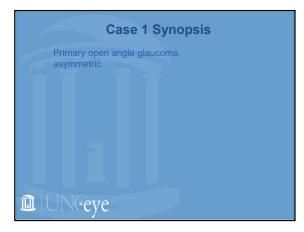
Pattern Recognition
 Intraocular pressures Are they on glaucoma meds already? Corneal thickness Ensure no corneal edema
 Older age Race (depending on form of glaucoma) Family history
1 UNCeye

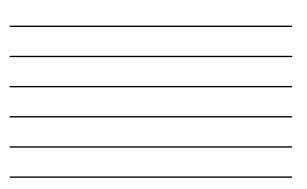


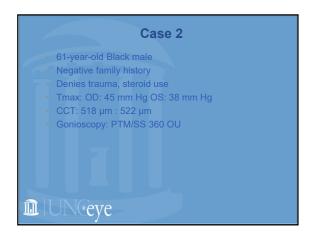


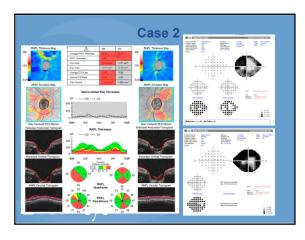


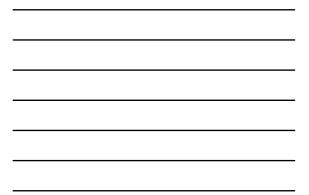


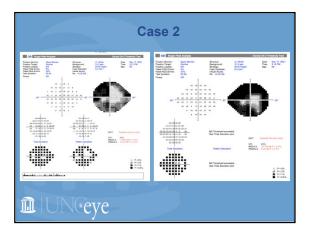




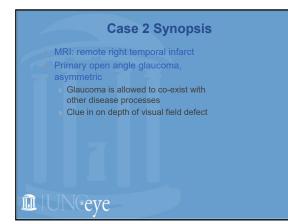






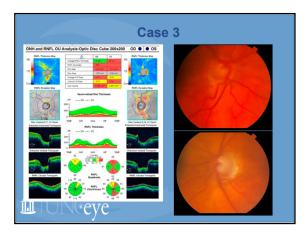




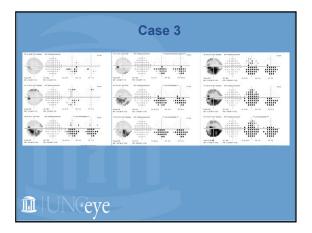


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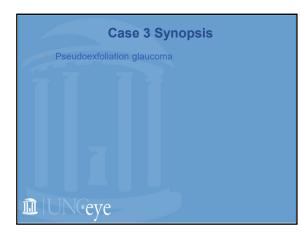
- 92-year-old White male
- Unknown family history
- Denies trauma, steroid use
- TMax: OD: 25 mm Hg OS: 27 mm Hg
- CCT: 564 µm : 533 µm
 Gonioscopy: CBB 360 (prior to CE/IOL in 2010)
- Notable: pseudoexfoliation syndrome, more evident on left eye than right eye





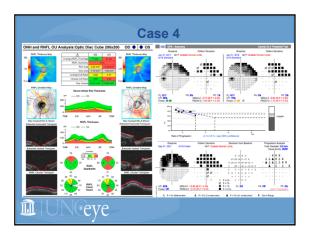


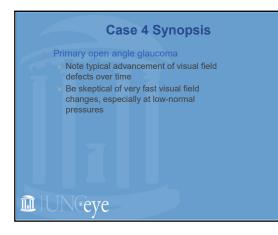




- 73-year-old White female
- Family history: brother, nephew
- Denies trauma, steroid use
- TMax: 15 mm Hg both eyes

- CCT: 561 µm and 547 µm
 Gonioscopy: CBB 360 both eyes
 Color Plates: 11 out of 11 both eyes

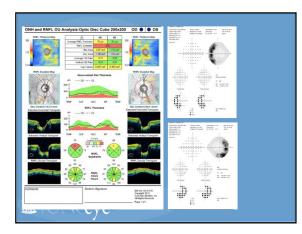


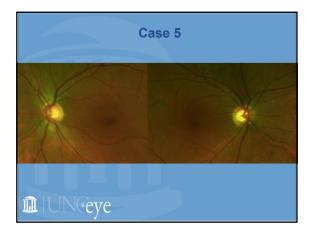


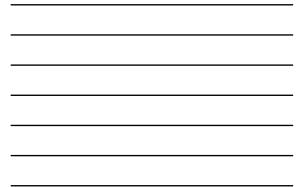
• 72-year-old White female

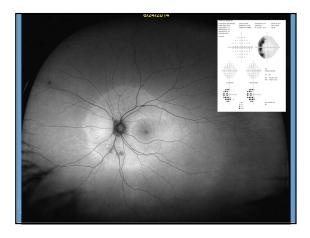
- Family history: unknown (adopted)

- Parmiy history: unknown (adopted)
 Denies trauma, steroid use
 TMax: OD: 15 mm Hg OS: 16 mm Hg
 CCT: 522 µm and 521 µm
 Gonioscopy: CBB 360 both eyes
 Color Plates: 6 out of 6 Ishihara bilaterally

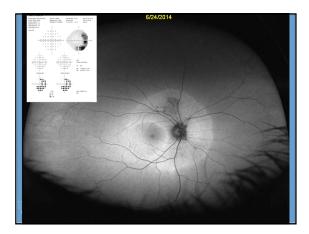






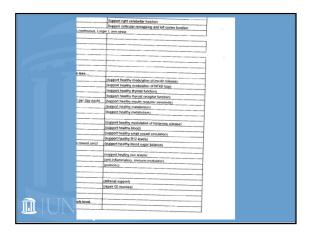




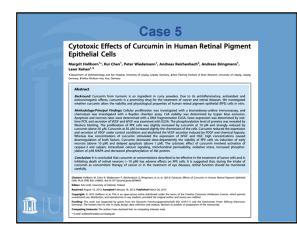


Steffi Rubin	6/23/2014
	w2.02014
Flight hand figure 8's - exactly on the beat	3 minutes at a time 3x per day
Smooth eye movements uplieft, with pauses	3 reps 8x per day
UBE Motion with Tubing - Do!	Start with 5 minutes total with resits. Work up to 20 minutes a
Carb modesty, portion size	
Emphasize woggles to increase urinary pH in co	nlext of calcium oxalate crystals in urine
Discase Risk Reduction / Improved Function	
PE EPADHA Essentials	12
PE Cal Mag Citrate/Malate	22x
Problem-Specific Supplements	Figure out how much gabatone yields sedation and take
A Gabatone	1 per moal and 1 at bedtime (too much = sedation)
N Curcumin	3 2x for 3 days when you feel sugar cravings
A Thyroxal	1 per day
T Vitamis A	1 per day
T Pic Mins	2 per day (replaces Chromate and V-zyme - finish these a
N ATPwise	2 per meal (not at dinner if it keeps you awake)
PE Gymnema	1 per meal
N Morus Win	make tea from this twice daily
T Queroetone	2 3x during allergy season
G Dong qui	hold off on this & see if resveratiol = given raise vibc cour
PE Virpocetine	3.2x
8 812 2000	2 per day
A Glysen	1 or 2 per meal (enough to move Section C1 & C2 sympton
PE Resveration	2 2x
PE Opthemin	1 2x
PE Vitamin D 5000kl	U to 2 per day (10,000ki per day)
K Therbiplic	14 caps 1x per week
As Needed	
PE Pure Ascorbic Acid	1 breakfast 1 early afternoon
	2 with meals that might have gluten (restaurant)
Totally avoid: hydrogenated oils, gluten	ween means that engra have gluten (restaurant)
OK grains are: millet, quinoa, rice, tapioca, fax	

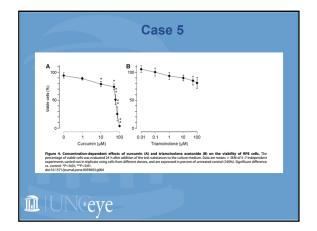














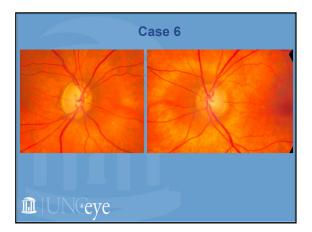
11

Case 6

- 77-year-old White female
- Family history: mother
- Denies trauma, steroid use

- Denies trauma, steroid use
 TMax: OD: 33 mm Hg and OS: 22 mm Hg
 CCT: 558 µm and 556 µm
 Gonioscopy: open prior to CE/IOL
 Status post trabeculectomy in 2011
 Notable: pigment dispersion syndrome, +/- low tension glaucoma equivalent

🗊 UN eye



Case 6

NH and RNFL OU Analysis:Optic Disc Cube 200x200 OD • • OS

Pasta Horiz Rata Tapa Pasta Capa Rata Capa Rata Capa Rata Capa

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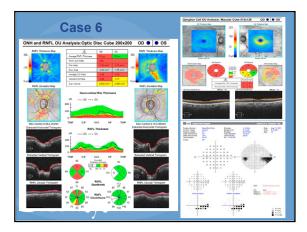
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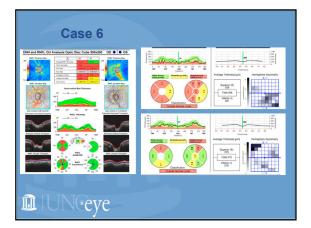
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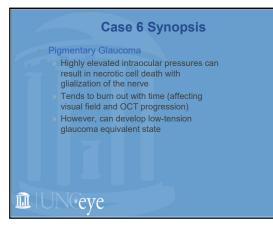
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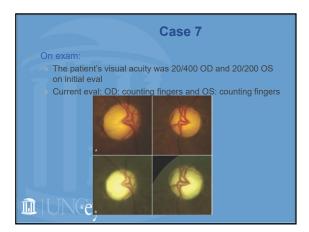


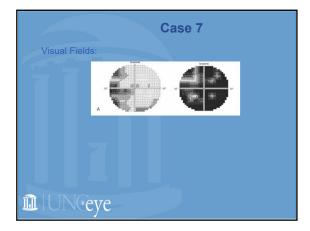
• 76-year-old Black male

- Family history: maternal aunt, maternal cousin
- Denies trauma, steroid use
- TMax: 17 mm Hg both eyes

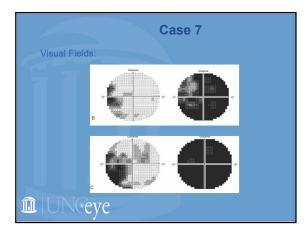
- CCT: 523 μm; 527 μm
 Gonioscopy: SS 360
 History of pituitary macroadenoma: s/p resection in 2009, 2nd resection in 2012; radiotherapy in 2012 (51.24 Gy)

🗊 IUNCeye

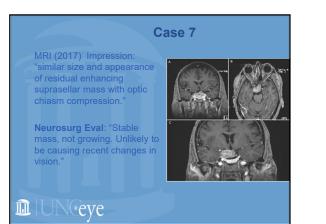


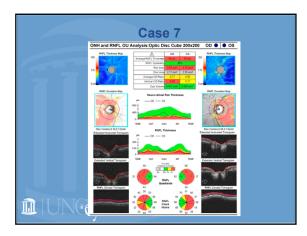


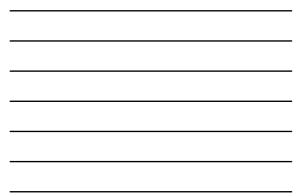


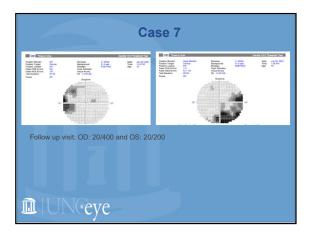




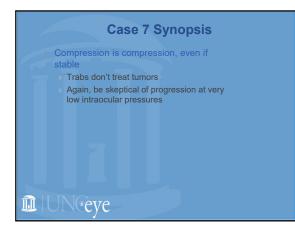






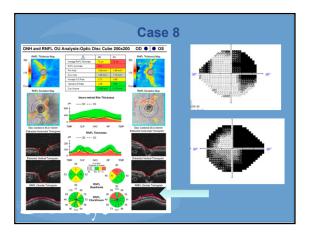




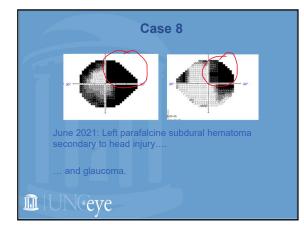


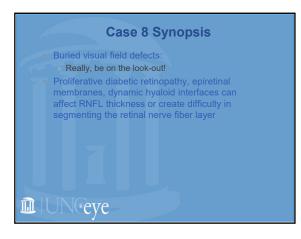
Case 8
54-year-old Black male
Family history: negative
Denies trauma, steroid use
TMax: 23 mm Hg right eye, 46 mm Hg left eye
ССТ: 555 µm ; 548 µm
Gonioscopy: ciliary body 360, both eyes
Notable: proliferative diabetic retinopathy; no evidence of NVI/NVA/PAS; has had vitrectomy for non-clearing vitreous hemorrhage (left eye)

III UN eye







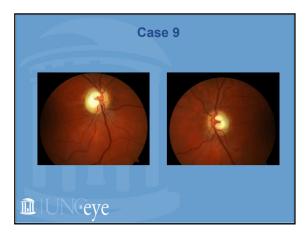


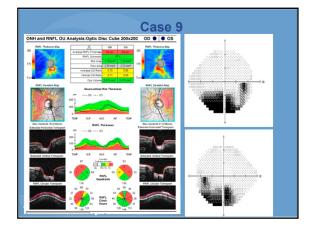
• 30-year-old White female

- Family history: father, paternal grandmother
- Denies trauma, steroid use
- Defines trauma, steroid use
 TMax: 18 mm Hg and 19 mm Hg on Betimol (unknown Tmax without meds)
 CCT: 532 µm : 522 µm
 Gonioscopy: CBB 360 both eyes
 Color Plates: 10/11 both eyes

- Notable: Congenital nystagmus

🗊 UN eye



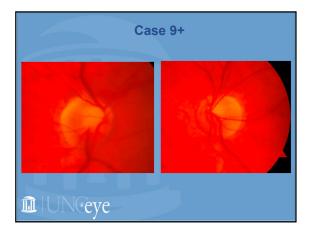


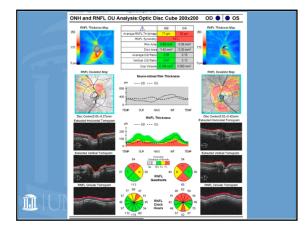


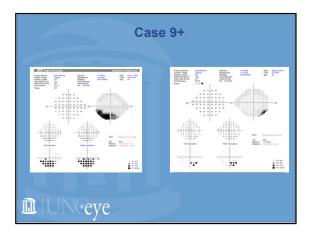
Supplemental Case 9

- 62 year-old White female
- Family history: negative
- Denies trauma, steroid use

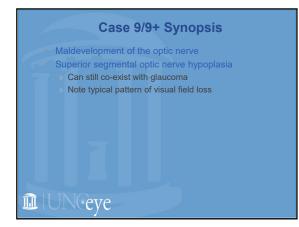
- TMax: 18 mm Hg and 19 mm Hg
 CCT: 578 μm and 565 μm
 Gonioscopy: open to SS 360 prior to CE/IOL











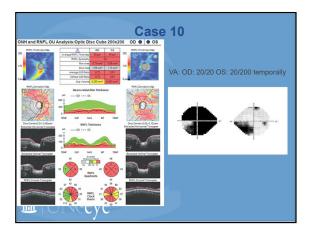


• 36-year-old White female

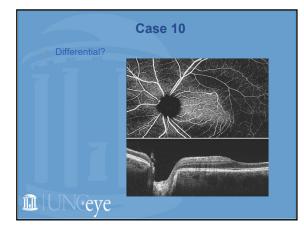
- Family history: maternal grandmother
- Denies trauma, steroid use
- TMax: 14 mm Hg both eyes
- CCT: 522 µm and 519 µm

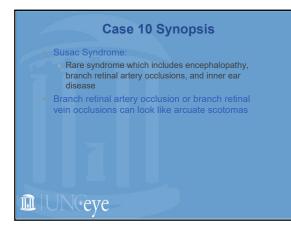
- Gonioscopy: CBB 360 both eyes
 Color plates: 12 out of 12 both eyes
 Notable: presented to ENT for sensorineural hearing loss, left-sided weakness and pain; referred to ophthalmology when there was concern for possible multiple sclerosis and/or algorithm.

glaucoma **I**UNeve



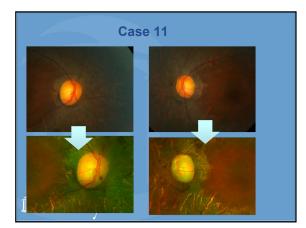


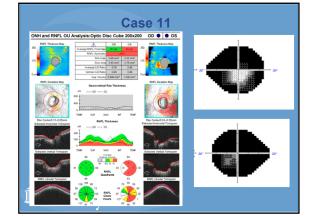




- 50-year-old Asian female
- Family history: unsure
- Denies trauma, steroid use

- TMax: 14 mm Hg and 27 mm Hg
 CCT: 521 μm and 529 μm
 Gonioscopy: steep approach, PAS present both eyes





Case 11 Synopsis

- Retinitis pigmentosa: diffuse progressive dysfunction of rod photoreceptors, then cone photoreceptors and RPE
- Migration of retinal pigment into the anterior chamber has been suggested as a cause of RP-associated glaucoma (open angle mechanisms)
- However, RP may be associated with ACG in rare instances
 - Visual fields and OCT are difficult to interpret in these cases

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	es Suggesting Non- comatous Diagnosis
History	Young age
	Rapid onset
	Rapid progression
	Headache (other than typical migraine)
	Other neurologic symptoms
Exam	Loss of visual acuity or visual field out of proportion to cupping
	Severe dyschromatopsia
	Afferent pupillary defect without significant asymmetry of cupping
	Ocular motility or other neurologic defects
Visual field	Atypical visual field: temporal > nasal, respect of vertical meridian, inferior altitudinal defect, central scotoma
Optic disk	Pallor of preserved rim

Features Suggesting Non-Glaucomatous Diagnosis

Differentiation of Compressive from Glaucomatous Optic Neuropathy with Spectral-Domain Optical Coherence

Tomography

 Tomography

 Conclusions:
 Compressive optic neuropathy is associated with significantly thinner nasal and temporal sectors compared with DQA, whereas OAG results in larger cups and cup volume with OCT messurements. The Heideberg retinal temograph is not able to differentiate CON from normal discs. Optimalmology. 2014;121:1516-1523 • 2014 of U for Amritican Academy of Ophthalmology.

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 Image Statistical Sta

Features Suggesting Non-Glaucomatous Diagnosis

The Cupped Disc

Who Needs Neuroimaging?

David S. Greenfield, MD,¹ R. Michael Siatkowski, MD,¹ Joel S. Glaser, MD,^{1,2} Norman J. Schatz, MD,^{1,2} Richard K. Parrish II, MD¹

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Conclusions

OCT RNFL and visual fields are powerful tools in diagnosing and managing glaucoma Pattern recognition of OCT – vertical thinning with corresponding visual field defects that respect the raphe – is a key skill to learn
But: Be aware of conditions that can complicate the interpretation of these tests

